



September 20, 2013

BP Products North America Inc.  
2815 Indianapolis Blvd.  
P.O. Box 710  
Whiting, IN 46394-0710  
USA

DELIVERED VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Indiana Department of Environmental Management  
OWQ Data Management Section (Mail Code 65-42)  
100 North Senate Avenue  
Indianapolis, IN 46204-2251

Re: DMR and MMR for Outfalls 002, 003, 004, & 005  
NPDES Permit No. 0000108

Please find enclosed the effluent quality data in the Discharge Monitoring Report (DMR) form and the Monthly Monitoring Report (MMR) form from the BP Products North America Inc. - Whiting Business Unit ("Whiting Refinery") for the month of August 2013.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need any additional information, please contact Tim Chen at (219) 473-1286.

Sincerely,

Nick Spencer  
Business Unit Leader  
Whiting Business Unit

Cc: N. Ream, Merrillville, IN

Attachments: DMR Report  
MMR Report

Bcc (scanned reports delivered via email)

R.L. Richards, ENVIRON Arlington, VA, rrichards@environcorp.com

J.P. Morrison

R. Solan

Orok Duke

D. Moye

B.L. Cook

P.J. Peterson

M.F. Osadjan, Warrenville, IL

Bcc (e-MMR delivered via email)

Jackie Backus, ENVIRON, jbackus@environcorp.com

Kerry Mierau, ENVIRON, kmierau@environcorp.com

e-MMR file path: I:\Environmental\Plant Docs\4 - Water\4G\4G01\DMR\2013\8-August  
2013\WQR0813.xls



## PERMITTEE NAME/ADDRESS

NAME BP PRODUCTS NORTH AMERICA INC.

ADDRESS WHITING REFINERY - MAIL CODE 062  
2815 INDIANAPOLIS BLVD  
WHITING IN 46394

FACILITY BP PRODUCTS NORTH AMERICA INC

LOCATION WHITING IN

ATTN: DANIEL SAJKOWSKI, PLT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)Form Approved  
OMB No. 2040-004  
Approval Expires 05-31-98

For any questions call Gary Starks at 317-232-8694

\*\*\* Mark box if NO DISCHARGE ☐ \*\*\*

NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Temperature, water deg. fahrenheit 00011 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	102.5	105.8	deg F	0	DAILY	CONTIN
	PERMIT REQUIREMENT					Report MO AVG	Report DAILY MX			Five Per Week	CONTIN
Temperature, water deg. fahrenheit 00011 7 0 0 Intake from Stream	SAMPLE MEASUREMENT	*****	*****		*****	72.4	73.4	deg F	0	DAILY	CONTIN
	PERMIT REQUIREMENT					Report MO AVG	Report DAILY MX			Five Per Week	CONTIN
Waste heat rejection rate 00179 2 0 0 Effluent Net	SAMPLE MEASUREMENT	775	885	MBTU /hr	*****	*****	*****		0	DAILY	CONTIN
	PERMIT REQUIREMENT	1700 MO AVG	2000 MX DA AV							Five Per Week	CONTIN
pH 00400 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.7	*****	8.3	SU	0	3/WEEK	GRAB
	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX			Three Per Week	GRAB
Oil and grease, hexane extr method 00552 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	0.4*	0.4*	mg/L	0	MONTHLY	GRAB
	PERMIT REQUIREMENT					Report MO AVG	5 DAILY MX			Monthly	GRAB
Flow, in conduit or thru treatment plant 50050 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	74.1	83.3	MGD	*****	*****	*****		0	DAILY	TOTALZ
	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ
Chlorine, total residual 50060 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	0	0	lb/d	*****	0	0	mg/L	0	WEEKLY	GRAB
	PERMIT REQUIREMENT	20 MO AVG	60 DAILY MX			.06 MO AVG	.06 DAILY MX			Weekly	GRAB

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NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR  
AUTHORIZED AGENT

Nick Spencer, Business Unit Leader

TYPED OR PRINTED

SIGNATURE

TELEPHONE

219 473-3149

AREA CODE AND NO.

DATE

9 24 13

MO DAY YEAR

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



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NAME BP PRODUCTS NORTH AMERICA INC.  
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 2815 INDIANAPOLIS BLVD  
 WHITING IN 46394  
 FACILITY BP PRODUCTS NORTH AMERICA INC  
 LOCATION WHITING IN  
 ATTN: DANIEL SAJKOWSKI, PLT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

Form Approved  
 OMB No. 2040-004  
 Approval Expires 05-31-98

Revised:

☐

IN0000108			002 A		
PERMIT NUMBER			PERMITTED FEATURE		
MONITORING PERIOD					
MO	DAY	YEAR	MO	DAY	YEAR
FROM 08/01/2013			TO 08/31/2013		



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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Flow, total	SAMPLE MEASUREMENT	*****	2296.8	Mgal/ mo	*****	*****	*****		0	MONTHLY	RCTOT
82220 1 0 0	PERMIT REQUIREMENT		Report							Monthly	RCOTOT
Effluent Gross			MO TOTAL								

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Nick Spencer, Business Unit Leader

*N. D. Spencer*

TELEPHONE

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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
pH <b>00400 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.4	*****	7.7	SU	0	WEEKLY	GRAB
	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX			Weekly	GRAB
Oil and grease, hexane extr method <b>00552 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	<0.9	1.8	mg/L	0	WEEKLY	GRAB
	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX			Weekly	GRAB
Carbon, tot organic (TOC) <b>00680 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	19	33	mg/L	0	WEEKLY	GRAB
	PERMIT REQUIREMENT					Report MO AVG	110 DAILY MX			Weekly	GRAB
Flow, in conduit or thru treatment plant <b>50050 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	0.239	1.018	MGD	*****	*****	*****		0	DAILY	TOTALZ
	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ

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NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				TELEPHONE		DATE		
Nick Spencer, Business Unit Leader				219   473-3149		9	24	13
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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
pH 00400 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.3	*****	7.8	SU	0	WEEKLY	GRAB
	PERMIT REQUIREMENT				6		9			Weekly	GRAB
					DAILY MN		DAILY MX				
Oil and grease, hexane extr method 00552 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	<0.6*	1.1	mg/L	0	WEEKLY	GRAB
	PERMIT REQUIREMENT					Report	15			Weekly	GRAB
						MO AVG	DAILY MX				
Carbon, tot organic (TOC) 00680 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	13	23	mg/L	0	WEEKLY	GRAB
	PERMIT REQUIREMENT					Report	110			Weekly	GRAB
						MO AVG	DAILY MX				
Flow, in conduit or thru treatment plant 50050 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	0.301	0.997	MGD	*****	*****	*****		0	DAILY	TOTALZ
	PERMIT REQUIREMENT	Report	Report							Daily	TOTALZ
		MO AVG	DAILY MX								

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BOD, 5-day, 20 deg. C  00310 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	125	207	lb/d	*****	0.8	1.3	mg/L	0	WEEKLY	COMP24
	PERMIT REQUIREMENT	4161	8164			Report	Report			Weekly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
pH  00400 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.5	*****	7.8	SU	0	3/WEEK	GRAB
	PERMIT REQUIREMENT				6		9			Three Per Week	GRAB
					DAILY MN		DAILY MX				
Solids, total suspended  00530 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	<247	434	lb/d	*****	<1.7	3.4	mg/L	0	2/WEEK	COMP24
	PERMIT REQUIREMENT	4925	7723			Report	Report			Twice Every Week	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Oil and grease, hexane extr method  00552 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	80	143	lb/d	*****	0.5*	0.9	mg/L	0	WEEKLY	GRAB
	PERMIT REQUIREMENT	1368	2600			Report	Report			Weekly	GRAB
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Nitrogen, ammonia total (as N)  00610 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	<26	245	lb/d	*****	<0.18	1.63	mg/L	0	5/WEEK	COMP24
	PERMIT REQUIREMENT	1584	3572			Report	Report			Five Per Week	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Phosphorus, total (as P)  00665 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	<13.0	30.7	lb/d	*****	<0.09	0.23	mg/L	0	WEEKLY	COMP24
	PERMIT REQUIREMENT	Report	Report			Report	1			Weekly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Sulfide, total (as S)  00745 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	1.4	1.5	lb/d	*****	0.01	0.01	mg/L	0	WEEKLY	COMP24
	PERMIT REQUIREMENT	23.1	51.4			Report	Report			Weekly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Chromium, total (as Cr) <b>01034 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	<1.5	<1.6	lb/d	*****	<0.01	<0.01	mg/L	0	WEEKLY	COMP24
	PERMIT REQUIREMENT	23.9	68.53			Report	Report			Weekly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Vanadium, total recoverable <b>01128 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	5.6	5.6	lb/d	*****	0.036	0.036	mg/L	0	MONTHLY	COMP24
	PERMIT REQUIREMENT	50	100			.28	.56			Monthly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Chromium, hexavalent dissolved (as Cr) <b>01220 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	<0.7	<0.8	lb/d	*****	<0.005	<0.005	mg/L	0	WEEKLY	GRAB
	PERMIT REQUIREMENT	2.01	4.48			Report	Report			Weekly	GRAB
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Phenolics, total recoverable <b>32730 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	<1.39	<1.45	lb/d	*****	<0.01	<0.01	mg/L	0	WEEKLY	COMP24
	PERMIT REQUIREMENT	20.33	73.01			Report	Report			Weekly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Flow, in conduit or thru treatment plant <b>50050 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	17.3	20.0	MGD	*****	*****	*****		0	DAILY	TOTLAZ
	PERMIT REQUIREMENT	Report	Report							Daily	TOTALZ
		MO AVG	DAILY MX								
Mercury, total recoverable <b>71901 1 0 1</b> Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	<2.27	1.26	ng/L	0	4/MONTH	GRAB
	PERMIT REQUIREMENT					23.1	Report			Six Per Year	GRAB
						ANNL AVG	DAILY MX				
Chemical Oxygen Demand (COD) <b>81017 1 0 0</b> Effluent Gross	SAMPLE MEASUREMENT	4382	5765	lb/d	*****	31	36	mg/L	0	WEEKLY	COMP24
	PERMIT REQUIREMENT	30323	58427			Report	Report			Weekly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				

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Nick Spencer, Business Unit Leader

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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Flow, total	SAMPLE MEASUREMENT	*****	536.0	Mgal/ mo	*****	*****	*****		0	MONTHLY	RCOTOT
82220 1 0 0	PERMIT REQUIREMENT		Report							Monthly	RCOTOT
Effluent Gross			MO TOTAL								

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**BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY**  
**2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394**

PERMIT NO	IN0000108	OUTFALL 002		Aug-13	AUG	COOLING WATER EFFLUENT							
PARAMETER CODE	FLOW 50050	IN-TEMP 00011	OUT-TEMP 00011	HEAT 00179	pH 00400	OUT-OIL 00552	IN-TOC 00680	OUT-TOC 00680	DELTA-TOC 00680	RESID-CL 50060	IN-TEMP 00011	OUT-TEMP 00011	
SAMPLE TYPE													
PERMIT	CONT	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	CONT	CONT	
ACTUAL	CONT	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	CONT	CONT	
FREQUENCY													
PERMIT	CONT	5/7	5/7	5/7	3/7	1/MO	1/YR	1/YR	1/YR	1/7	5/7	5/7	
ACTUAL	CONT	CONT	CONT	CONT	3/7	1/MO	1/YR	1/YR	1/YR	1/7	CONT	CONT	
LIMITS:	AVG.			1.70						20			
MAX.	DATE			2.00	6.0-9.0				5	.06	60		
	MG/D	DEG C	DEG C	GBTU/HR	SU	mg/l	mg/l	mg/l	mg/l	mg/l	LB/D	DEG F	DEG F
1	71.6	21	36	0.671	_____	_____	_____	_____	_____	0	0	69.8	96.8
2	72.1	22	36	0.631	8.3	_____	_____	_____	_____	_____	_____	71.6	96.8
3	73.1	22	38	0.731	_____	_____	_____	_____	_____	_____	_____	71.6	100.4
4	73.5	23	38	0.689	_____	_____	_____	_____	_____	_____	_____	73.4	100.4
5	73.4	22	38	0.734	7.9	_____	_____	_____	_____	_____	_____	71.6	100.4
6	73.6	22	38	0.736	_____	_____	_____	_____	_____	_____	_____	71.6	100.4
7	74.8	22	39	0.794	8.1	_____	_____	_____	_____	_____	_____	71.6	102.2
8	74.5	23	40	0.791	_____	_____	_____	_____	_____	0	0	73.4	104.0
9	74.9	23	40	0.795	8.0	_____	_____	_____	_____	_____	_____	73.4	104.0
10	74.8	23	40	0.794	_____	_____	_____	_____	_____	_____	_____	73.4	104.0
11	74.6	23	40	0.792	_____	_____	_____	_____	_____	_____	_____	73.4	104.0
12	74.2	23	40	0.788	7.7	_____	_____	_____	_____	_____	_____	73.4	104.0
13	73.8	23	40	0.784	_____	_____	_____	_____	_____	_____	_____	73.4	104.0
14	75.0	22	39	0.797	7.8	0.4*	_____	_____	_____	_____	_____	71.6	102.2
15	76.6	22	39	0.814	_____	_____	_____	_____	_____	0	0	71.6	102.2
16	83.3	22	39	0.885	7.9	_____	_____	_____	_____	_____	_____	71.6	102.2
17	78.3	22	39	0.832	_____	_____	_____	_____	_____	_____	_____	71.6	102.2
18	72.9	23	40	0.774	_____	_____	_____	_____	_____	_____	_____	73.4	104.0
19	72.9	23	40	0.774	8.3	_____	_____	_____	_____	_____	_____	73.4	104.0
20	72.6	23	41	0.816	_____	_____	_____	_____	_____	_____	_____	73.4	105.8
21	73.1	22	41	0.868	8.3	_____	_____	_____	_____	_____	_____	71.6	105.8
22	72.8	23	41	0.819	_____	_____	_____	_____	_____	0	0	73.4	105.8
23	74.2	23	40	0.788	8.2	_____	_____	_____	_____	_____	_____	73.4	104.0
24	73.4	23	39	0.734	_____	_____	_____	_____	_____	_____	_____	73.4	102.2
25	73.4	22	39	0.780	_____	_____	_____	_____	_____	_____	_____	71.6	102.2
26	72.9	22	39	0.774	8.1	_____	_____	_____	_____	_____	_____	71.6	102.2
27	73.3	22	39	0.779	_____	_____	_____	_____	_____	_____	_____	71.6	102.2
28	72.7	23	39	0.727	8.3	_____	_____	_____	_____	_____	_____	73.4	102.2
29	74.2	22	39	0.788	_____	_____	_____	_____	_____	0	0	71.6	102.2
30	72.6	22	39	0.771	8.0	_____	_____	_____	_____	_____	_____	71.6	102.2
31	73.7	22	39	0.783	_____	_____	_____	_____	_____	_____	_____	71.6	102.2
AVERAGE	74.1	22	39	0.775	8.1	0.4*	_____	_____	_____	0	0	72.4	102.5
HIGHEST VAL.	83.3	23	41	0.885	8.3	0.4*	_____	_____	_____	0	0	73.4	105.8
LOWEST VAL.	71.6	21	36	0.631	7.7	0.4*	_____	_____	_____	0	0	69.8	96.8
OVER LIMIT	0	0	0	0	0	0	_____	_____	_____	0	0	0	0
TOTAL	2296.8												

CERTIFIED OPERATOR: *Benny Cook* 9/24/2013  
 —MEANS NOT TESTED THIS DATE  
 \* Note: Not Quantifiable

NO: 14407  
 Exp. 6/30/2013  
 Tel. 219-473-5298

DATE: 9-24-13

AUTHORIZED AGENT: *N. D. F.*



**BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY**  
**2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394**

PERMIT NO. IN0000108

Aug-13 AUG STORM WATER RUNOFF

--- -OUTFALL 003- ---

\*\*\* NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK

PARAMETER		pH	OIL	TOC	FLOW
CODE:		00400	00552	00680	50050
LIMITS:	MAX.	6-9	15	110	

DATE	SU	mg/l	mg/l	MG/D
1	-----	-----	-----	0.022
2	-----	-----	-----	0.019
3	-----	-----	-----	0.045
4	-----	-----	-----	0.000
5	7.7	1.8	33	0.024
6	-----	-----	-----	0.025
7	-----	-----	-----	0.000
8	-----	-----	-----	0.000
9	-----	-----	-----	0.029
10	-----	-----	-----	0.015
11	-----	-----	-----	0.000
12	7.7	1.1	32	0.026
13	-----	-----	-----	0.000
14	-----	-----	-----	0.029
15	-----	-----	-----	0.227
16	-----	-----	-----	0.316
17	-----	-----	-----	0.299
18	-----	-----	-----	0.050
19	7.5	<0.3	6	0.535
20	-----	-----	-----	0.410
21	-----	-----	-----	0.384
22	-----	-----	-----	0.270
23	-----	-----	-----	0.364
24	-----	-----	-----	0.360
25	-----	-----	-----	0.358
26	7.4	0.4*	6	0.364
27	-----	-----	-----	0.376
28	-----	-----	-----	0.566
29	-----	-----	-----	1.018
30	-----	-----	-----	0.616
31	-----	-----	-----	0.655

AVERAGE	7.6	<0.9	19	0.239
HIGHEST VAL.	7.7	1.8	33	1.018
LOWEST VAL.	7.4	<0.3	6	0.000
OVER LIMIT	0	0	0	0

CERTIFIED OPERATOR: *Barry J. Cook* 9/24/2013  
 --MEANS NOT TESTED THIS DATE  
 \* Note: Not Quantifiable

NO. 14407  
 Exp. 6/30/2013  
 Tel. 219-473-5298

DATE :

9-24-13

AUTHORIZED AGENT :

*N. D. F.*



**BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY**  
**2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394**

PERMIT NO. IN0000108

Aug-13 AUG STORM WATER RUNOFF

----OUTFALL 004----

\*\*\* NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK

PARAMETER		pH	OIL	TOC	FLOW
CODE:		00400	00552	00680	50050
LIMITS:	MAX.	6-9	15	110	

DATE		SU	mg/l	mg/l	MG/D
	1	-----	-----	-----	0.000
	2	-----	-----	-----	0.000
	3	-----	-----	-----	0.000
	4	-----	-----	-----	0.000
	5	7.8	<0.3	22	0.001
	6	-----	-----	-----	0.110
	7	-----	-----	-----	0.007
	8	-----	-----	-----	0.000
	9	-----	-----	-----	0.000
	10	-----	-----	-----	0.000
	11	-----	-----	-----	0.000
	12	7.6	1.1	23	0.000
	13	-----	-----	-----	0.401
	14	-----	-----	-----	0.997
	15	-----	-----	-----	0.322
	16	-----	-----	-----	0.496
	17	-----	-----	-----	0.459
	18	-----	-----	-----	0.791
	19	7.3	0.7	5	0.628
	20	-----	-----	-----	0.519
	21	-----	-----	-----	0.457
	22	-----	-----	-----	0.679
	23	-----	-----	-----	0.578
	24	-----	-----	-----	0.540
	25	-----	-----	-----	0.487
	26	7.6	0.4*	4	0.576
	27	-----	-----	-----	0.547
	28	-----	-----	-----	0.522
	29	-----	-----	-----	0.002
	30	-----	-----	-----	0.008
	31	-----	-----	-----	0.211

AVERAGE	7.6	<0.6*	13	0.301
HIGHEST VAL.	7.8	1.1	23	0.997
LOWEST VAL.	7.3	<0.3	4	0.000
OVER LIMIT	0	0	0	0

CERTIFIED OPERATOR: *Benny Z. Cook* 9/24/2013  
 --MEANS NOT TESTED THIS DATE  
 \* Note: Not Quantifiable

NO. 14407  
 Exp. 6/30/2013  
 Tel. 219-473-5298

DATE :  
 9-24-13

AUTHORIZED AGENT :  
*N. D. [Signature]*



**BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY  
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394**

PERMIT NO	IN0000108	OUTFALL 005	Aug-13	AUG	PROCESS WATER EFFLUENT									
PARAMETER	FLOW	BOD	COD		pH	TSS			OIL		NH3-N		SULFIDE	
CODE	50050	00310	81017		00400	00530			00552		00610		00745	
SAMPLE TYPE														
	PERMIT	CONT	24	24	GRAB	24			GRAB		24		24	
	ACTUAL	CONT	24	24	GRAB	24			GRAB		24		24	
FREQUENCY														
	PERMIT	CONT	1/7	1/7	3/7	2/7			1/7		5/7		1/7	
	ACTUAL	CONT	1/7	1/7	3/7	2/7			1/7		5/7		1/7	
LIMITS:	AVG		4161	30323		4925			1368		1584		23.1	
	MAX		8164	58427	6.0-9.0	7723			2600		3572		51.4	
DATE		MG/D	mg/l	LB/D	mg/l	LB/D	SU	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	
1	18.0	—	—	—	—	—	—	<1.0	<150	—	—	1.63	245	
2	16.9	—	—	—	—	—	7.7	—	—	—	—	—	—	
3	17.9	—	—	—	—	—	—	—	—	—	—	—	—	
4	16.3	—	—	—	—	—	—	—	—	—	—	—	—	
5	17.4	—	—	—	—	—	7.6	<1.0	<145	—	—	<0.10	<15	
6	19.2	—	—	—	36	5765	—	—	—	—	—	<0.10	<16	
7	19.1	1.3	207	—	—	—	7.7	—	—	0.9	143	<0.10	<16	
8	17.3	—	—	—	—	—	—	<1.0	<144	—	—	0.12	17	
9	16.8	—	—	—	—	—	7.6	—	—	—	—	—	—	
10	17.0	—	—	—	—	—	—	—	—	—	—	—	—	
11	18.6	—	—	—	—	—	—	—	—	—	—	<0.10	<16	
12	17.4	—	—	—	—	—	7.6	2.6	377	—	—	<0.10	<15	
13	15.7	—	—	—	35	4583	—	—	—	—	—	<0.10	<13	
14	18.7	0.8	125	—	—	—	7.6	—	—	0.6*	94	<0.10	<16	
15	20.0	—	—	—	—	—	—	2.2	367	—	—	<0.10	<17	
16	18.1	—	—	—	—	—	7.6	—	—	—	—	—	—	
17	18.9	—	—	—	—	—	—	—	—	—	—	—	—	
18	16.6	—	—	—	—	—	—	—	—	—	—	<0.10	<14	
19	15.3	—	—	—	—	—	7.7	3.4	434	—	—	<0.10	<13	
20	16.7	—	—	—	27	3761	—	—	—	—	—	<0.10	<14	
21	15.5	0.5	65	—	—	—	7.8	—	—	0.3*	39	<0.10	<13	
22	16.7	—	—	—	—	—	—	1.0	139	—	—	<0.10	<14	
23	16.9	—	—	—	—	—	7.7	—	—	—	—	—	—	
24	16.4	—	—	—	—	—	—	—	—	—	—	—	—	
25	16.2	—	—	—	—	—	—	—	—	—	—	<0.10	<14	
26	16.7	—	—	—	—	—	7.8	1.8	251	—	—	<0.10	<14	
27	16.4	—	—	—	25	3419	—	—	—	—	—	<0.10	<14	
28	17.6	0.7	103	—	—	—	7.8	—	—	0.3*	44	<0.10	<15	
29	16.0	—	—	—	—	—	—	1.6	214	—	—	<0.10	<13	
30	17.4	—	—	—	—	—	7.5	—	—	—	—	—	—	
31	18.3	—	—	—	—	—	—	—	—	—	—	—	—	
AVERAGE		17.3	0.8	125	31	4382	7.7	<1.7	<247	0.5*	80	<0.18	<26	
HIGHEST VAL.		20.0	1.3	207	36	5765	7.8	3.4	434	0.9	143	1.63	245	
LOWEST VAL.		15.3	0.5	65	25	3419	7.5	<1.0	<139	0.3*	39	<0.10	<13	
OVER LIMIT			0	0	0	0	0	0	0	0	0	0	0	
TOTAL		536.0												

CERTIFIED OPERATOR: *Barry J. Cook* 9/24/2013  
— MEANS NOT TESTED THIS DATE  
\* Note: Not Quantifiable

NO. 14407  
Exp. 6/30/2013  
Tel. 219-473-5298

DATE:

9-24-13

AUTHORIZED AGENT:

*N.P.F.*



**BP PRODUCTS NORTH AMERICA, Inc., WHITING REFINERY**  
**2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394**

PERMIT NO	IN0000108	OUTFALL 005	Aug-13	AUG	PROCESS WATER EFFLUENT							
PARAMETER	HX. CHRM		TL. CHRM	PHENOL	VANADIUM	ORTHO-P					MERCURY	
CODE	01220		01034/01118	32730	01128	00665					71901	
SAMPLE TYPE												
PERMIT	GRAB		24	24	24	24					GRAB	
ACTUAL	GRAB		24	24	24	24					GRAB	
FREQUENCY												
PERMIT	1/7		1/7	1/7	1/MO	1/7					6/YR	
ACTUAL	1/7		1/7	1/7	1/MO	1/7					6/YR	
LIMITS:	AVG.	2.01	23.90		20.33							
	MAX.	4.48	68.53		73.01							
DATE	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	1	LB/D	ng/L	LB/D
1	_____	_____	_____	_____	_____	_____	_____	_____	<0.01	<1.5	1.08	0.000162
2	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	<0.01	<1.45	_____	_____	_____	_____	_____	_____
6	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
7	<0.005	<0.8	<0.01	<1.6	_____	_____	_____	_____	_____	_____	_____	_____
8	_____	_____	_____	_____	_____	_____	_____	_____	<0.01	<1.4	_____	_____
9	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
10	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
11	_____	_____	_____	_____	_____	_____	0.036	5.6	_____	_____	_____	_____
12	_____	_____	_____	_____	<0.01	<1.45	_____	_____	_____	_____	_____	_____
13	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
14	<0.005	<0.8	<0.01	<1.6	_____	_____	_____	_____	_____	_____	0.663	0.000103
15	_____	_____	_____	_____	_____	_____	_____	_____	0.08	13.3	_____	_____
16	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	1.26	0.000190
17	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
18	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
19	_____	_____	_____	_____	<0.01	<1.28	_____	_____	_____	_____	_____	_____
20	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
21	<0.005	<0.6	<0.01	<1.3	_____	_____	_____	_____	_____	_____	<0.500	<0.000065
22	_____	_____	_____	_____	_____	_____	_____	_____	0.13	18.1	_____	_____
23	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
24	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
25	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
26	_____	_____	_____	_____	<0.01	<1.39	_____	_____	_____	_____	_____	_____
27	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
28	<0.005	<0.7	<0.01	<1.5	_____	_____	_____	_____	_____	_____	_____	_____
29	_____	_____	_____	_____	_____	_____	_____	_____	0.23	30.7	_____	_____
30	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
31	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
AVERAGE	<0.005	<0.7	<0.01	<1.5	<0.01	<1.39	0.036	5.6	<0.09	<13.0	<0.876	<0.000130
HIGHEST VAL.	<0.005	<0.8	<0.01	<1.6	<0.01	<1.45	0.036	5.6	0.23	30.7	1.26	0.000190
LOWEST VAL.	<0.005	<0.6	<0.01	<1.3	<0.01	<1.28	0.036	5.6	<0.01	<1.4	<0.500	<0.000065
OVER LIMIT	0	0	0	0	0	0	0	0	0	0	0	0

CERTIFIED OPERATOR: *Benny Cook* 9/24/2013 NO. 14407  
 - MEANS NOT TESTED THIS DATE  
 Exp. 6/30/2013  
 Tel. 219-473-5298

DATE: 9-24-13

AUTHORIZED AGENT: *N.D.F.*